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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,750	09/01/2006	Yoshiaki Kojima	PC 3220.01 US	3415
52737 DVA/PEC-IPD	7590 01/12/200	9	EXAMINER	
2265 E. 220TH		PENDLETON, DIONNE		
LONG BEACH, CA 90810			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			01/12/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Anniination No	A	
	Application No.	Applicant(s)	
Office Action Commence	10/591,750	KOJIMA, YOSHIAKI	
Office Action Summary	Examiner	Art Unit	
	DIONNE H. PENDLETON	2627	
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 11 s This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-5 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-5 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	awn from consideration. for election requirement. her. herecepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the drawing(s) is objected to by the drawing(s) be held in abeyance.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsukuda (US 7,359,305) in view of Yamada (US Pub 2002/0060967).

Regarding claims 1 and 2,

Tsukuda teaches a method for recording a recording track comprising steps of:

Rotating the disc ("110" in figure 1);

recording the recording track by irradiating a beam onto the disc;

deflecting the beam in a radial direction to a direction to a position (column 5:line 62 – column 6: line 6 discloses that the beam may be bent in the radial direction) where a recording is to be formed when the beam reaches a predetermined position on the disc;

recording by irradiating the beam on the disc;

and deflecting the beam in a tangential direction (column 5:line discloses bending the electron beam perpendicularly);

Though Tsukuda fails to expressly teach that the method comprises recording a pit positioned between the recording tracks, Tsukuda does not restrict to use of the electron beam recorder for track recordings exclusively.

Yamada teaches that that a laser beam may be deflected for recording on the center of the groove track and the land track i.e., recording track and pit, as claimed (see "Abstract", and para [0048]).

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Tsukuda and Yamada, deflecting the electron beam of Tsukuda for performing both track recordings and pit recordings, for the purpose of accurately forming a high quality and well balanced pit on a groove track and a land track.

Regarding claims 3 and 5,

Tsukuda teaches an information recording method according to claims 1 and 4, wherein the beam is an electron beam (see Figure 5, also see "101" and "103" in Figure 1).

Regarding claim 4,

Tsukuda teaches an information recording apparatus including a rotation driving unit ("110" in figure 1) for supporting and rotating a disc ("109" in figure 1), a movement driving unit ("111" in figure 1) for moving the rotation driving unit in a radius direction of a disc, and a beam irradiating means ("101" in figure 1) for irradiating a

single beam onto the original disc so as to be freely deflectable, the information recording apparatus comprising:

a deflection signal generating means for generating a radius direction deflection (column 5:line 62 – column 6: line 6 discloses that the beam may be bent in the radial direction) and a tangential direction deflection (column 5:line discloses bending the electron beam perpendicularly);

and a beam deflecting unit ("105", "106").

Tsukuda fails to expressly teach that the method comprises recording a pit positioned between the recording tracks. However, Tsukuda does not restrict to use of the electron beam recorder for track recordings exclusively.

Yamada teaches that that a laser beam may be deflected for recording on the center of the groove track and the land track i.e., recording track and pit, as claimed (see "Abstract", and para [0048]).

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Tsukuda and Yamada, deflecting the electron beam of Tsukuda for performing both track recordings and pit recordings, for the purpose of accurately forming a high quality and well balanced pit on a groove track and a land track.

Response to Arguments

2. Applicant's arguments with respect to claims rejected in the official action mailed 8/12/2008 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DIONNE H. PENDLETON whose telephone number is (571)272-7497. The examiner can normally be reached on 10:30-7:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Wayne Young/ Supervisory Patent Examiner, Art Unit 2627